



012004

22763 U.S. PTO

PTO/SB/05 (05-03)

Approved for use through 04/30/2003, OMB 0651-0032

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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|   |  |                                |
|---|--|--------------------------------|
| <b>UTILITY<br/>PATENT APPLICATION<br/>TRANSMITTAL</b><br>(Only for new nonprovisional applications under 37 C.F.R. 1.53(b)) |  | Attorney Docket No. 388-032398 |
|   |  | First Inventor Koji MORIYA     |
| Title Fluid Distributor, Burner Device, Gas Turbine Engine and Co-Generation System   |  |                                |
| Express Mail Label No. EL 971287071 US  |  |                                |

|   |   |
|---|---|
| <b>APPLICATION ELEMENTS</b><br>See MPEP chapter 600 concerning utility patent application contents. | <b>ADDRESS TO:</b><br>Commissioner For Patents<br>Mail Stop Patent Application<br>P.O. Box 1450<br>Alexandria VA 22313-1450 |
|---|---|

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)2. ☐ Applicant claims small entity status.  
See 37 CFR 1.27.3. ☒ Specification [Total Pages 83]  
(preferred arrangement set forth below)

- Descriptive title of the invention
- Cross Reference to Related Applications
- Statement Regarding Fed sponsored R & D
- Reference to sequence listing, a table, or a computer program listing appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure

4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 26]

5. Oaths or Declarations (2 sets) [Total Pages 10]

a. ☐ Newly executed (original or copy)b. ☒ Copy from a prior application (37 CFR 1.63(d))  
(for continuation/divisional with Box 18 completed)

- i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).

6. ☐ Application Data Sheet. See 37 CFR 1.767. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)8. Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)a. ☐ Computer Readable Form (CRF)

b. Specification Sequence Listing on:

i. ☐ CD-ROM or CD-R (2 copies); orii. ☐ paperc. ☐ Statements verifying identity of above copies**ACCOMPANYING APPLICATION PARTS**9. ☒ Assignment Papers (copies from parent (2 sets., 10 pp.))10. ☐ 37 CFR 3.73(b) Statement (when there is an assignee) ☐ Power of Attorney11. ☐ English Translation Document (if applicable)12. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations13. ☒ Preliminary Amendment (7 pp.)14. ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)15. ☐ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)16. ☐ Nonpublication Request under 35 U.S.C. 122  
(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.17. ☒ Other: Notification of Filing of Divisionals (copy)

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☒ Divisional ☐ Continuation-in-part (CIP) of prior application No: 10/149,887

Prior application information: Examiner: Ehud Gartenberg

Art Unit: 3746

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**19. CORRESPONDENCE ADDRESS**☒ Customer Number or Bar Code Label 28289 or ☐ Correspondence address below  
(Insert Customer No. or Attach bar code label here)

|         |  |           |              |          |              |
|---------|--|-----------|--------------|----------|--------------|
| Name    | Russell D. Orkin                             |           |              |          |              |
|         | Webb Ziesenheim Logsdon Orkin & Hanson, P.C. |           |              |          |              |
| Address | 700 Koppers Building                         |           |              |          |              |
|         | 436 Seventh Avenue                           |           |              |          |              |
| City    | Pittsburgh                                   | State     | PA           | Zip Code | 15219        |
| Country | United States                                | Telephone | 412-471-8815 | Fax      | 412-471-4094 |

|                   |                    |                                   |                  |
|-------------------|--------------------|-----------------------------------|------------------|
| Name (Print/Type) | Jessica M. Schroth | Registration No. (Attorney/Agent) | 47,102           |
| Signature         |                    | Date                              | January 20, 2004 |

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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{W0100512.1}

22387 U.S. PTO  
10/760945

012004

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**FEE TRANSMITTAL**  
**for FY 2004**

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT** \$770.00**Complete if Known**

|                      |                  |
|----------------------|------------------|
| Application Number   | Not yet assigned |
| Filing Date          | January 20, 2004 |
| First Named Inventor | Koji MORIYA      |
| Examiner Name        | Not yet assigned |
| Art Unit             | Not yet assigned |
| Attorney Docket No.  | 388-032398       |

**METHOD OF PAYMENT (check all that apply)**☒ Checks ☐ Credit Card ☐ Money Order ☐ Other ☐ None☒ Deposit Account:Deposit  
Account  
Number

23-0650

Deposit  
Account  
Name**The Director is authorized to: (check all that apply)**☐ Charge fee(s) indicated below ☒ Credit any overpayments☒ Charge any additional fee(s) during the pendency of this application☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.**FEE CALCULATION****1. BASIC FILING FEE**

| Large Entity |          | Small Entity |          | Fee Description        | Fee Paid |
|--------------|----------|--------------|----------|------------------------|----------|
| Fee Code     | Fee (\$) | Fee Code     | Fee (\$) |                        |          |
| 1001         | 770      | 2001         | 385      | Utility filing fee     | \$770.00 |
| 1002         | 340      | 2002         | 170      | Design filing fee      |          |
| 1003         | 530      | 2003         | 265      | Plant filing fee       |          |
| 1004         | 770      | 2004         | 385      | Reissue filing fee     |          |
| 1005         | 160      | 2005         | 80       | Provisional filing fee |          |

**SUBTOTAL (1)** \$770.00**2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE**

|                    |   |                     |                       |                 |
|--------------------|---|---------------------|-----------------------|-----------------|
|                    |   | <b>Extra Claims</b> | <b>Fee from below</b> | <b>Fee Paid</b> |
| Total Claims       | 3 | -20** = 0           | X 9.00 =              |                 |
| Independent Claims | 1 | -3** = 0            | X 43.00 =             |                 |
| Multiple Dependent |   |                     |                       |                 |

| Large Entity |          | Small Entity |          | Fee Description   |
|--------------|----------|--------------|----------|---|
| Fee Code     | Fee (\$) | Fee Code     | Fee (\$) |   |
| 1202         | 18       | 2202         | 9        | Claims in excess of 20                                    |
| 1201         | 86       | 2201         | 43       | Independent claims in excess of 3                         |
| 1203         | 290      | 2203         | 145      | Multiple dependent claim, if not paid                     |
| 1204         | 86       | 2204         | 43       | **Reissue independent claims over original patent         |
| 1205         | 18       | 2205         | 9        | **Reissue claims in excess of 20 and over original patent |

**SUBTOTAL (2)**

\*\*or number previously paid, if greater; For Reissues, see above

**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

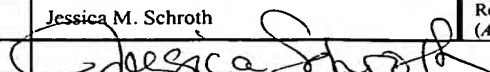
| Large Entity |          | Small Entity |          | Fee Description  | Fee Paid |
|--------------|----------|--------------|----------|--|----------|
| Fee Code     | Fee (\$) | Fee Code     | Fee (\$) |  |          |
| 1051         | 130      | 2051         | 65       | Surcharge - late filing fee or oath  |          |
| 1052         | 50       | 2052         | 25       | Surcharge - late provisional filing fee or cover sheet                     |          |
| 1053         | 130      | 1053         | 130      | Non-English specification  |          |
| 1812         | 2,520    | 1812         | 2,520    | For filing a request for <i>ex parte</i> reexamination                     |          |
| 1804         | 920*     | 1804         | 920*     | Requesting publication of SIR prior to Examiner action                     |          |
| 1805         | 1,840*   | 1805         | 1,840*   | Requesting publication of SIR after Examiner action                        |          |
| 1251         | 110      | 2251         | 55       | Extension for reply within first month                                     |          |
| 1252         | 420      | 2252         | 210      | Extension for reply within second month                                    |          |
| 1253         | 950      | 2253         | 475      | Extension for reply within third month                                     |          |
| 1254         | 1,480    | 2254         | 740      | Extension for reply within fourth month                                    |          |
| 1255         | 2,010    | 2255         | 1,005    | Extension for reply within fifth month                                     |          |
| 1401         | 330      | 2401         | 165      | Notice of Appeal   |          |
| 1402         | 330      | 2402         | 165      | Filing a brief in support of an appeal                                     |          |
| 1403         | 290      | 2403         | 145      | Request for oral hearing   |          |
| 1451         | 1,510    | 1451         | 1,510    | Petition to institute a public use proceeding                              |          |
| 1452         | 110      | 2452         | 55       | Petition to revive - unavoidable   |          |
| 1453         | 1,330    | 2453         | 665      | Petition to revive - unintentional   |          |
| 1501         | 1,330    | 2501         | 665      | Utility issue fee (or reissue)   |          |
| 1502         | 480      | 2502         | 240      | Design issue fee   |          |
| 1503         | 640      | 2503         | 320      | Plant issue fee  |          |
| 1460         | 130      | 1460         | 130      | Petitions to the Commissioner  |          |
| 1807         | 50       | 1807         | 50       | Processing fee under 37 CFR 1.17(q)  |          |
| 1806         | 180      | 1806         | 180      | Submission of Information Disclosure Stmt                                  |          |
| 8021         | 40       | 8021         | 40       | Recording each patent assignment per property (times number of properties) |          |
| 1809         | 770      | 2809         | 385      | Filing a submission after final rejection (37 CFR 1.129(a))                |          |
| 1810         | 770      | 2810         | 385      | For each additional invention to be examined (37 CFR 1.129(b))             |          |
| 1801         | 770      | 2801         | 385      | Request for Continued Examination (RCE)                                    |          |
| 1802         | 900      | 1802         | 900      | Request for expedited examination of a design application                  |          |

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

**SUBTOTAL (3)****SUBMITTED BY**

(Complete (if applicable))

|                   |   |                                   |        |           |                  |
|-------------------|---|-----------------------------------|--------|-----------|------------------|
| Name (Print/Type) | Jessica M. Schroth  | Registration No. (Attorney/Agent) | 47,102 | Telephone | 412-471-8815     |
| Signature         |  |                                   |        | Date      | January 20, 2004 |

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

DIVISIONAL PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:

ATTORNEY'S DOCKET NUMBER

Koji MORIYA, Tsutomu WAKABAYASHI,  
Takahiro SAKO, Yuji NAKAMURA, Shonsuke  
KOGA, Masamichi IPPOMMATSU, Seiichi ITO,  
Kazuo SUZUKI, and Kazuo SHIMODAIRA

388-032398

ENTITLED

Fluid Distributor, Burner Device, Gas Turbine Engine and Co-Generation System

Mail Stop PATENT APPLICATION  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**EXPRESS MAIL CERTIFICATE**

"Express Mail" Label Number EL US 971287071 US

Date of Deposit January 20, 2004

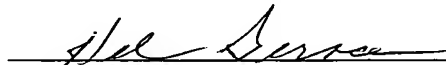
I hereby certify that the following attached papers or fees:

UTILITY PATENT APPLICATION TRANSMITTAL (1 p.);  
FEE TRANSMITTAL FOR FY 2004 (1 p. in trip.);  
PRELIMINARY AMENDMENT (7 pp.)  
SPECIFICATION (68 pp.); CLAIMS (14 pp.);  
ABSTRACT OF THE DISCLOSURE (1 p.);  
TWENTY-SIX (26) SHEETS OF DRAWINGS;  
DECLARATIONS AND POWERS OF ATTORNEY (2 sets, 10 pp., copies from parent);  
ASSIGNMENTS (2 sets, 10 pp., copies from parent);  
NOTIFICATION OF FILING OF DIVISIONALS (1 p., copy from parent);  
and Check for \$770.00 for fee

are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. §1.10 on the date indicated above and is addressed to the Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Helen Gerace

(Typed name of person mailing paper or fee)



(Signature of person mailing paper or fee)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Koji MORIYA, Tsutomu WAKABAYASHI, Takahiro SAKO, Yuji NAKAMURA, Shonosuke KOGA, Masamichi IPPOMMATSU, Seiichi ITO, Kazuo SUZUKI, and Kazuo SHIMODAIRA

Application No.: 10/149,887 Group Art Unit: 3746  
Filing Date: June 14, 2002 Examiner: Ehud Gartenberg  
Title: Fluid Distributor, Burner Device, Gas Turbine Engine, and Co-Generation System

COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, VA 22313-1450

**COPY**

NOTIFICATION OF FILING OF  
CONTINUING OR DIVISIONAL APPLICATIONS

Notification is hereby being made of the filing of:

- ☐ Continuation
- ☐ Continuation-in-part
- ☒ Divisional (4)

applications for this case filed:

- ☒ concurrently herewith.
- ☒ on January 20, 2004  
(date)

Respectfully submitted,

WEBB ZIESENHEIM LOGSDON  
ORKIN & HANSON, P.C.

January 20, 2004  
Date

By Jessica Schroth

Jessica M. Schroth  
Registration No. 47,102  
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I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to the Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on January 20, 2004.

Helen Gerace  
(Name of Person Mailing Paper)

Helen Gerace January 20, 2004  
Signature Date